

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

WANG

Serial No. 09/735,503

Filed: December 14, 2000

Title: METHOD USING SECONDARY ORIENTATION TO TUNE BUCKET NATURAL FREQUENCY

Assistant Commissioner for Patents  
Washington, DC 20231

Atty Dkt. 839-820

C# M#

Group Art Unit: 1725

Examiner: L. Tran

Date: December 23, 2002



RECEIVED  
DEC 26 2002  
TC 1700

Sir:

**RESPONSE/AMENDMENT/LETTER**

This is a response/amendment/letter in the above-identified application and includes an attachment which is hereby incorporated by reference and the signature below serves as the signature to the attachment in the absence of any other signature thereon.

 **Correspondence Address Indication Form Attached.****Fees are attached as calculated below:**

Total effective claims after amendment	7	minus highest number		
previously paid for	20	(at least 20) =	0	x \$ 18.00
				\$ 0.00

Independent claims after amendment	2	minus highest number		
previously paid for	3	(at least 3) =	0	x \$ 84.00
				\$ 0.00

If proper multiple dependent claims now added for first time, add \$280.00 (ignore improper)		\$ 0.00
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Petition is hereby made to extend the current due date so as to cover the filing date of this paper and attachment(s) (\$110.00/1 month; \$400.00/2 months; \$920.00/3 months)		\$ 0.00
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Terminal disclaimer enclosed, add \$ 110.00		\$ 0.00
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<input type="checkbox"/> First/second submission after Final Rejection pursuant to 37 CFR 1.129(a) (\$740.00)		\$ 0.00
<input type="checkbox"/> Please enter the previously unentered , filed		
<input type="checkbox"/> Submission attached		

<b>Subtotal</b>	\$	<b>0.00</b>
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If "small entity," then enter half (1/2) of subtotal and subtract		-\$	0.00
<input type="checkbox"/> Applicant claims "small entity" status. <input type="checkbox"/> Statement filed herewith			

Rule 56 Information Disclosure Statement Filing Fee (\$180.00)		\$	0.00
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Assignment Recording Fee (\$40.00)		\$	0.00
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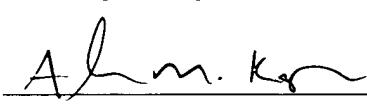
Other:			<b>0.00</b>
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<b>TOTAL FEE ENCLOSED</b>	\$	<b>0.00</b>
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The Commissioner is hereby authorized to charge any deficiency, or credit any overpayment, in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Account No. 14-1140. A duplicate copy of this sheet is attached.

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By Atty: Alan M. Kagen, Reg. No. 36,178

Signature: 

1725

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NATURAL FREQUENCY



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Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**AMENDMENT**

In response to the Office Action dated October 25, 2002, please amend the above-identified patent application as follows:

**IN THE CLAIMS**

Please substitute the following amended claim(s) for corresponding claim(s) previously presented. A copy of the amended claim(s) showing current revisions is attached.

1. (Twice Amended) A method of manufacturing a turbine bucket comprising:

(a) investment casting the turbine bucket with a single crystal alloy; and

(b) tuning a natural frequency of the turbine bucket without modifying physical features of the turbine bucket, wherein step (b) is practiced by, prior to step (a), placing a

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